



SEQUENCE LISTING

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KRASNYKH, VICTOR N.

<120> MODIFIED ADENOVIRUS CONTAINING A FIBER REPLACEMENT PROTEIN

<130> 678503-2006.2

<140> 09/612,852

<141> 2000-07-10

<150> 09/250,580

<151> 1999-02-16

<150> 60/074,844

<151> 1998-02-17

<160> 20

<170> PatentIn Ver. 3.2

<210> 1

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 1

gggaacttga cctcacagaa cgtttatagt cgtttaaag

40

<210> 2

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 2

aggccatggc caatttttgc cggcgataaa aaggtag

37

<210> 3

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 3

ttggcccat ttaaataaat cgtttgtgtt atgtttcaac gtgtttattt ttc

53

<210> 4
 <211> 61
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 4
 aattgaaaaa taaacacgtt gaaacataac acaaacgatt catttaaattg gggccaatat 60
 t 61

<210> 5
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 5
 ggcaggtgga ggcggttcag gcggaggtgg ctctggcggt ggcggatccg gggattt 57

<210> 6
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 6
 aaatccccgg atccgccacc gccagagcca cctccgcctg aaccgcctcc acctgcc 57

<210> 7
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 7
 gatctagagg atcgcatcac catcaccatc actaat 36

<210> 8
 <211> 32

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 8
 attagtgatg gtgatggtga tgcgacctc ta 32

<210> 9
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 9
 ccctcatgaa gcgcgcaaga ccgtctg 27

<210> 10
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 10
 cccaagctta gtgatggtga tggatg 27

<210> 11
 <211> 8
 <212> PRT
 <213> Adenovirus type 5

<400> 11
 Gly Asn Thr Leu Ser Gln Asn Val
 1 5

<210> 12
 <211> 26
 <212> PRT
 <213> Bacteriophage T4

<400> 12
 Val Tyr Ser Arg Leu Asn Glu Ile Asp Thr Lys Gln Thr Thr Val Glu
 1 5 10 15

Ser Asp Ile Ser Ala Ile Lys Thr Ser Ile
 20 25

<210> 13
 <211> 361
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 fiber-fibrin-6H chimera

<400> 13

Met	Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	1	5	10	15
Tyr	Asp	Thr	Glu	Thr	Gly	Pro	Pro	Thr	Val	Pro	Phe	Leu	Thr	Pro	Pro	20	25	30	
Phe	Val	Ser	Pro	Asn	Gly	Phe	Gln	Glu	Ser	Pro	Pro	Gly	Val	Leu	Ser	35	40	45	
Leu	Arg	Leu	Ser	Glu	Pro	Leu	Val	Thr	Ser	Asn	Gly	Met	Ala	Leu	Lys	50	55	60	
Met	Gly	Asn	Gly	Leu	Ser	Leu	Asp	Glu	Ala	Gly	Asn	Leu	Thr	Ser	Gln	65	70	75	80
Asn	Val	Tyr	Ser	Arg	Leu	Asn	Glu	Ile	Asp	Thr	Lys	Gln	Thr	Thr	Val	85	90	95	
Glu	Ser	Asp	Ile	Ser	Ala	Ile	Lys	Thr	Ser	Ile	Gly	Tyr	Pro	Gly	Asn	100	105	110	
Asn	Ser	Ile	Ile	Thr	Ser	Val	Asn	Thr	Asn	Thr	Asp	Asn	Ile	Ala	Ser	115	120	125	
Ile	Asn	Leu	Glu	Leu	Asn	Gln	Ser	Gly	Gly	Ile	Lys	Gln	Arg	Leu	Thr	130	135	140	
Val	Ile	Glu	Thr	Ser	Ile	Gly	Ser	Asp	Asp	Ile	Pro	Ser	Ser	Ile	Lys	145	150	155	160
Gly	Gln	Ile	Lys	Asp	Asn	Thr	Thr	Ser	Ile	Glu	Ser	Leu	Asn	Gly	Ile	165	170	175	
Val	Gly	Glu	Asn	Thr	Ser	Ser	Gly	Leu	Arg	Ala	Asn	Val	Ser	Trp	Leu	180	185	190	
Asn	Gln	Ile	Val	Gly	Thr	Asp	Ser	Ser	Gly	Gly	Gln	Pro	Ser	Pro	Pro	195	200	205	
Gly	Ser	Leu	Leu	Asn	Arg	Val	Ser	Thr	Ile	Glu	Thr	Ser	Val	Ser	Gly	210	215	220	
Leu	Asn	Asn	Asp	Val	Gln	Asn	Leu	Gln	Val	Glu	Ile	Gly	Asn	Asn	Ser	225	230	235	240

Thr	Gly	Ile	Lys	Gly	Gln	Val	Val	Ala	Leu	Asn	Thr	Leu	Val	Asn	Gly
				245					250					255	
Thr	Asn	Pro	Asn	Gly	Ser	Thr	Val	Glu	Glu	Arg	Gly	Leu	Thr	Asn	Ser
			260					265					270		
Ile	Lys	Ala	Asn	Glu	Thr	Asn	Ile	Ala	Ser	Val	Thr	Gln	Glu	Val	Asn
		275					280					285			
Thr	Ala	Lys	Gly	Asn	Ile	Ser	Ser	Leu	Gln	Gly	Asp	Val	Gln	Ala	Leu
	290					295					300				
Gln	Glu	Ala	Gly	Tyr	Ile	Pro	Glu	Ala	Pro	Arg	Asp	Gly	Gln	Ala	Tyr
305					310					315					320
Val	Arg	Lys	Asp	Gly	Glu	Trp	Val	Leu	Leu	Ser	Thr	Phe	Leu	Ser	Pro
				325					330					335	
Ala	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser
			340					345					350		
Arg	Gly	Ser	His	His	His	His	His	His							
		355					360								

```
<210> 14
<211> 9
<212> PRT
<213> Unknown Organism
```

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<220>
<223> Description of Unknown Organism: Peptide ligand
      containing the RGD motif
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<400> 14
Cys Asp Cys Arg Gly Asp Cys Phe Cys
1 5

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<210> 15
<211> 6
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide fragment from FF/6H chimera
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<400> 15
Phe Asn Pro Val Tyr Asp
  1             5
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<210> 16
<211> 9
<212> PRT
<213> Artificial Sequence
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide fragment from FF/6H chimera

<400> 16
 Arg Gly Ser His His His His His His
 1 5

<210> 17
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: 6-His tag

<400> 17
 His His His His His His
 1 5

<210> 18
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide fragment from FF/6H chimera

<400> 18
 Ser Gln Asn Val
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<210> 19
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: 5-His tag

<400> 19
 His His His His His
 1 5

<210> 20
 <211> 4
 <212> PRT
 <213> Bacteriophage T4

<400> 20
Gly Leu Asn Thr
1